TABLE 15

GRAPHICAL COMPARISON OF FUELS

Clean cold producer gas No. 3. Low 195 High 211

Weight = 1.057 kg per : B.t.u. per cubic foot = 1742 Calories per m^3 = = 0.066 Ib per cubic foot

Composition, Volumetric	Products of Combustion per 100 Volumes of Gas.								
	Air Supply in Percentage of Theoretical Requirements								
	60%	80%	100 %	120 %	140 %	180 %	260 %	340 %	420 %
H_a	5.52	2.76							
16.60									
CH_4	20.76	10.38							
5.50			36.50	36.50	36.50	36.50	36.50	36.50	36.50
CO	15.74	26.12	0.00	6.57	13.14	26.28	52.56	78.84	105.12
27.10			28.20	28.20	28.20	28.20	28.20	28.20	28.20
$C0_2$	0.00	0.00	0	0	0	0	0	0	0
3.90	22.68	25.44	177.70	203.98	230.26	282.82	387.94	493.06	598.18
O_2	125.14	151.42	242.40	275.25	308.10	373.80	505.20	636.60	768.00
0.00	189.84	216.40							
H_20	98.55	1.28	Percentage Basis (Wet)						690.85
0.60	1.231	4.80							1.29
N_2	0.07	0.00	0.00	2.39	4.27	7.03	10.40	12.39	13.69
46.30	8.29	12.09	15.06	13.26	11.85	9.77	7.23	5.73	4.75
Tot. 100.00	11.94	11.77	11.63	10.24	9.15	7.56	5.58	4.43	3.67
Air vol	65.92	70.06	73.31	74.11	74.73	75.76	75.79	77.45	77.89
Weight:	3.30	1.45							
kg per m^3	12.42	5.44	0.00	2.66	4.70	7.61	11.02	12.96	14.21
Ib per cu ft	9.42	13.70	17.04	14.77	13.04	10.56	7.65	6.00	4.93
H_2	74.86	79.41	82.96	82.57	82.26	81.83	81.33	81.04	80.86
CO									
0_2									
$C0_2$									
B_20									
N_2									
H_2									